



## Rule Fact Sheet

February 5, 2003  
(Updated as of May 7, 2003)

### U.S. STEEL PARTICULATE MATTER EMISSION LIMITS

#01-407(APCB)

#### Updates Since Preliminary Adoption

The limit to the No. 13 Blast Furnace Stoves as expressed in pounds of SO<sub>2</sub> per million BTU has been changed from 0.024 to 0.029 lbs SO<sub>2</sub>/MMBTU. The emission limit of 20.40 pounds per hour will remain the same; therefore, this increase will provide U.S. Steel with operating flexibility without increasing emissions to the air of PM<sub>10</sub>.

#### **Overview**

This proposed rule concerns amendments to the particulate matter (PM<sub>10</sub>) emission limits at U.S. Steel-Gary Works and U.S. Steel-Gary Coke Operations.

#### **Citations Affected**

Amends 326 IAC 6-1-10.1 and 326 IAC 6-1-10.2.

#### **Affected Persons**

U.S. Steel-Gary Works and U.S. Steel-Gary Coke Operations.

#### **Reason for the Rule**

The rule needs to be amended to reflect the changes at U.S. Steel that resulted from an Agreed Order in 1996 and subsequent permit modifications and variances. The state rule and state implementation plan (SIP) need to be updated to make these changes permanent and enforceable.

#### **Economic Impact of the Rule**

Minimal to none. This action will update the PM<sub>10</sub> emission limits in the rule. The amended rule will continue to meet the requirements of the National Ambient Air Quality Standards (NAAQS). The rule amendments do not require

any new expenditures by U.S. Steel.

#### **Benefits of the Rule**

The emission limit changes are the result of actions U.S. Steel took under an Agreed Order signed in 1996. Updating the overall PM<sub>10</sub> emissions from U.S. Steel in the rule will reflect the significantly reduced level of emissions.

Other changes will formalize current variance conditions so extensions of the variances are not needed.

#### **Description of the Rulemaking Project**

U.S. Steel has requested revisions to the PM<sub>10</sub> limits in 326 IAC 6-1-10.1 that are specific to its integrated steel making operations located in Gary, Indiana. The amended rules will be submitted to U.S. EPA as an amendment to the SIP upon promulgation.

Revisions to U.S. Steel's PM<sub>10</sub> emissions limits are necessary to address changes at its integrated steel making operation that have occurred since the current rules became effective in 1993, including the closure of certain emissions units, installation of new emissions units, and installation of new control systems. Many of these changes are the result of an Agreed Order entered into by IDEM and U.S. Steel in March 1996 that required substantial

reductions in PM<sub>10</sub> emissions from a number of individual facilities at the plant.

U.S. Steel has provided an updated inventory, modeling, and other information to evaluate the impact of these changes on ambient concentrations of PM<sub>10</sub>. The updated inventory includes fugitive dust emissions from the plant area, roadways, storage piles and material handling activities, and an update of emissions sources due to the removal, replacement or installation of equipment. The PM<sub>10</sub> emission limits must be based on modeling information that clearly demonstrates compliance with the NAAQS. The rule amendments to the overall PM<sub>10</sub> emissions from U.S. Steel's integrated steel making operation will show a reduction of almost three hundred fifty (350) tons per year.

At the present time, U.S. Steel-Gary Works is operating under a variance granted by the department under IC 13-14-8 from certain provisions of 326 IAC 6-1-10.1 in response to the above mentioned changes at U.S. Steel. This rulemaking will update PM<sub>10</sub> emission limits in the rule so that the variance from 326 IAC 6-1-10.1 is no longer needed.

In addition, on December 10, 2001, U.S. Steel-Gary Coke Operations requested a variance from certain monitoring and reporting requirements in 326 IAC 6-1-10.2. U.S. Steel-Gary Coke Operations ceased using process water in the coke quench water system and began using lake water in accordance with a March 22, 1996 Agreed Order with IDEM. The monitoring and reporting requirements had been promulgated specifically for the use of process water. Therefore, the change to lake water meant that the requirements were no longer necessary. IDEM granted the requested variance from monitoring and reporting requirements in 326 IAC 6-1-10.2(c)(7)(B) through 326 IAC 6-1-10.2(c)(7)(D) on April 1, 2002. This rulemaking is intended to remove these provisions from the rule since they are no longer necessary and to avoid the need to issue future variances to U.S. Steel-Gary Coke Operations for these requirements.

### **Scheduled Hearings**

First Public Hearing: November 6, 2002 at 1:00 p.m., at the Indiana Government Center-South, 402

West Washington Street, Conference Center Room A, Indianapolis, Indiana.

Continuation of First Public Hearing: February 5, 2003 at 1:00 p.m., at the Indiana Government Center-South, 402 West Washington Street, Conference Center Room C, Indianapolis, Indiana.

Second Public Hearing: May 7, 2003 at 1:00 p.m., at the Indiana Government Center-South, 402 West Washington Street, Conference Center Room C, Indianapolis, Indiana.

### **Consideration of Factors Outlined in Indiana Code 13-14-8-4**

Indiana Code 13-14-8-4 requires that in adopting rules and establishing standards, the board shall take into account the following:

- 1) All existing physical conditions and the character of the area affected.
- 2) Past, present, and probable future uses of the area, including the character of the uses of surrounding areas.
- 3) Zoning classifications.
- 4) The nature of the existing air quality or existing water quality, as appropriate.
- 5) Technical feasibility, including the quality conditions that could reasonably be achieved through coordinated control of all factors affecting the quality.
- 6) Economic reasonableness of measuring or reducing any particular type of pollution.
- 7) The right of all persons to an environment sufficiently uncontaminated as not to be injurious to:
  - (A) human, plant, animal, or aquatic life; or
  - (B) the reasonable enjoyment of life and property.

### **Consistency with Federal Requirements**

The amended rules are consistent with federal requirements.

### **Rulemaking Process**

The first step in the rulemaking process is a first notice published in the *Indiana Register*. This includes a discussion of issues and opens a first comment period. The second notice is then published which contains the comments and the departments responses from the first comment period, a notice of first meeting/hearing, and the

draft rule. The Air Pollution Control Board holds the first meeting/hearing and public comments are heard. The proposed rule is published in the *Indiana Register* after preliminary adoption along with a notice of second meeting/hearing. If the proposed rule is substantively different from the draft rule, a third comment period is required. The second public meeting/hearing is held and public comments are heard. Once final adoption occurs, the rule is reviewed for form and legality by the Attorney General, signed by the Governor, and becomes effective 30 days after filing with the Secretary of State.

**IDEM Contact**

Additional information regarding this rulemaking action can be obtained from Chris Pedersen, Regulatory Development Section, Office of Air Quality, (317) 233-6868 or (800) 451-6027 (in Indiana).